1999 SUGAR AND SPECIALTY CROP HIGHLIGHTS

SUGAR

Sugar production for 1999 rose 4 percent above the previous year to 368,000 tons of 96° raw sugar. An increase in acreage for harvest accounted for this higher production. Plantations were able to harvest 2.9 million tons of sugarcane from this acreage for an average yield of 81.7 tons of sugarcane per acre. Sugar prices during 1999 dipped 4 percent to \$352 per ton of 96° raw sugar, resulting in a total value of \$131.3 million for raw sugar, 1 percent below 1998.

COFFEE

Hawaii farmers harvested 10.0 million pounds of coffee (parchment basis) during the 1999-2000 season, up 5 percent from the previous season and the largest harvest since the 1962-63 season. Farm prices across the State averaged \$2.10 per pound (parchment basis) for the 1999-2000 season, down 19 percent from the previous season. Total farm value of the 1999-2000 crop is estimated at \$21.0 million (parchment basis), down 15 percent from the 1998-99 season.

Hawaii county production totaled 3.0 million pounds (parchment basis) during the 1999-2000 season, down 14 percent from the previous season. Less-than-optimal weather conditions in the North and South Kona districts, where most of the Big Island's coffee is grown, resulted in a late and smaller harvest compared to the previous season. Heavy pruning at the end of the 1998-99 season and, to a lesser extent, relatively low farm prices also contributed to the drop in output.

MACADAMIA NUTS

Hawaii's 1999-2000 macadamia nut crop is estimated at **56.5** million pounds net, wet in-shell, 1.0 million pounds below last season's crop. Weather conditions had mixed effects on orchards depending on location. Some areas received ample rainfall while others experienced an ongoing drought. Overall yields averaged 2,990 pounds per acre (net, wet in-shell), nearly unchanged from the previous season.

Total acreage in crop dropped 300 acres from the previous year to 19,900 acres and the lowest total in 14 years. Harvested acreage also declined by 300 acres totaling 18,900 acres. More acreage was abandoned this season along with the announcement that this will be the final season for a major Maui orchard.

The farm price for net, wet in-shell macadamia nuts averaged 67.0 cents per pound, up 2.0 cents from the 1998-1999 average. The farm value for the 1999-2000 crop is estimated at \$37.9 million, up 1.0 percent from the previous year. Hawaii growers continued to feel the impact from increased world competition.

GINGER ROOT

Hawaii ginger root growers harvested an estimated 16.1 million pounds during the 1998/99 season, down 11 percent from the previous season's record-high output.

The majority of the State's ginger root is grown in the North and South Hilo districts of Hawaii island where weather conditions were less than ideal during the 1998/99 season. While ginger root needs abundant rainfall during the initial growing phase, it requires drier weather as the crop nears harvest. During the months preceding the start of the main harvest in December 1998, conditions were particularly wet. Weather conditions were even wetter in January and February of 1999 when harvesting was in full swing. As a result, disease became a problem for many farmers, and was the main reason for the 8-percent decline in average yields.

Farm prices increased for the first time in five seasons to an average of 50 cents per pound during the 1998/99 season, 25 percent higher than the previous season. Farm value is pegged at \$8.1 million for the 1998/99 season, up 12 percent as higher farm prices more than offset the decline in production. The \$8.1 million in farm revenues recorded by ginger root growers during the 1998/99 season was only 1 percent less than the record-high amount received in 1996/97. Although a 25-percent increase in the average farm price was a major reason for the near-record revenues, 1998/99's farm price was still the fourth lowest in the last 27 seasons.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1995-99

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		1,000 pc	ounds	Cents per pound	1,000 dollars
1995	135	43.0	5,800	87.0	5,046
1996	200	47.0	9,400	87.0	7,050
1997	275	44.0	12,100	75.0	8,107
1998	360	50.0	18,000	40.0	7,200
1999	350	46.0	16,100	50.0	8,050

GINGER ROOT: U.S. imports, 1995-99

Year	Unground (including fresh)	Ground	Sweet	Candied	Total
			1,000 pounds		
1995	33,768	525	1,346	1,026	36,665
1996	30,367	1,220	1,819	1,065	34,471
1997	29,649	854	2,046	1,267	33,816
1998	30,375	563	1,816	1,512	34,265
1999	33,679	669	2,059	2,000	38,406

Source: Foreign Agricultural Trade of the United States, Economic Research Service, U.S. Department of Agriculture.

FRESH HERBS: Production, price, and value, State of Hawaii, 1995-99

			•				
Year		Basil		Parsley	Chinese parsley	Other	All
	Sweet (Italian)	Asian	Total	i arsiey	(Cilantro)	herbs ¹	herbs
Production	- 1,000 pounds						
1995	390	240	630	230	60	200	1,120
1996	510	390	900	200	70	230	1,400
1997	1,100	500	1,600	200	100	300	2,200
1998	1,200	500	1,700	125	75	500	2,400
1999	1,500	600	2,100	190	90	520	2,900
Farm price -	dollars per pour	nd					
1995	1.95	.85		1.30	1.70	2.60	
1996	2.20	1.40		1.70	2.70	2.40	
1997	2.00	1.00		1.75	2.65	2.30	
1998	1.90	.90		2.05	2.70	2.20	
1999	2.00	.70		2.00	2.15	2.70	
Farm value	- 1,000 dollars						
1995	761	204	965	299	102	520	1,886
1996	1,122	546	1,668	340	189	552	2,749
1997	2,200	500	2,700	350	265	690	4,005
1998	2,280	450	2,730	256	203	1,100	4,289
1999	3,000	420	3,420	380	194	1,404	5,398

¹ Includes spearmint, dill, and other miscellaneous herbs. Also includes small amounts of basil and parsley for which an individual total could not be obtained or published separately in order to avoid disclosure of individual operations.

SEED CROPS: Number of farms, acreage, outshipments, and value, State of Hawaii, 1995-99

				Acreage		Total		Value) ²
Crop year ¹	Farms	Total	Nursery	Seed increase	Grow-out or observation	outshipments of seed	Total	Seed corn	Other seed crops
	Number			Acres		1,000 pounds		1,000 do	llars
1995-96	6	1,600	630	910	60	2,025	13,000	12,475	525
1996-97	6	1,780	625	1,060	95	3,160	20,250	19,030	1,220
1997-98	8	2,960	1,040	1,830	90	4,050	25,150	24,684	466
1998-99	8	3,070	1,120	1,870	80	5,000	25,300	24,620	680
1999-00	8	3,500	1,100	2,290	110	6,200	28,000	26,840	1,160

¹Seed crops are grown year-round in Hawaii. However, the main season is from November to June.

² Value is based on sales or gross operational budgets.

SUGARCANE: Number of farms, acreage, yield, production, price, and value, by counties, 1995-991

		Acr	eage	Yield	per acre	Production	Farm	Value of
Year	Farms ²	In crop ²	Harvested for sugar	Sugarcane ³	Raw sugar 96°	of cane for sugar	price ³	cane for sugar ⁴
	Number	1,00	0 acres		Tons	1,000 tons	Dollars per ton	Million dollars
State								
1995	9	83.8	48.5	81.5	10.16	3,953	32.30	127.7
1996	7	68.8	42.9	82.6	10.18	3,544	30.50	108.1
1997	4	67.8	32.0	91.4	11.15	2,925	29.20	85.5
1998	4	67.6	30.3	90.0	11.66	2,727	32.00	87.4
1999	4	67.0	35.4	81.7	10.38	2,892	30.00	86.8
Counties	:							
Hawaii	,							
1995	1	2.4	6.5	66.2	7.31	430	28.40	12.2
1996	1	0	1.3	62.3	5.56	81	21.50	1.7
1997	0	Ö	0	0	0	0	0	0
1998	Ő	Ő	Ö	Ö	Ö	Ö	Ö	Ö
1999	0	0	ŏ	Ŏ	Ŏ	Ŏ	0	0
1333	Ū	· ·	v	Ü	· ·	v	Ū	· ·
Honolul	lu							
1995	2	8.0	7.4	95.8	10.96	709	29.70	21.1
1996	1	0	4.8	85.0	8.69	408	25.40	10.4
1997	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
Kauai								
	4	20.0	440	04.4	0.05	4.400	20.00	25.0
1995	4	30.8	14.0	81.1	9.65	1,136	30.80	35.0
1996	3	26.5	16.7	81.0	9.34	1,353	28.70	38.8
1997	2	25.4	12.3	92.8	10.80	1,141	27.70	31.6
1998	2	24.7	11.3	83.5	10.29	944	30.40	28.7
1999	2	23.7	13.9	66.0	8.08	917	29.00	26.6
Maui								
1995	2	42.6	20.6	81.5	11.12	1,678	35.40	59.4
1996	2	42.3	20.1	84.7	11.55	1,702	33.60	57.2
1997	2	42.4	19.7	90.6	11.36	1,784	30.20	53.9
	2				12.48	·	32.90	
1998		42.9	19.0	93.8		1,783		58.7
1999	2	43.3	21.5 al Research Cente	91.9	11.86	1,975	30.50	60.2

¹ Primary data source, Hawaii Agricultural Research Center.

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² At end of year.

³ Yield and farm price may not compute exactly due to rounding.

⁴ Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses. Processing costs based on toll charges paid by independent producers.

SUGAR: Production of raw sugar and molasses, price, and value, by counties, 1995-991

	Mill pro	duction	Average retu	rns received ²	Val	ue of production	_
Year	Raw sugar 96°	Molasses ³	Raw sugar 96°	Molasses ³	Raw sugar 96°	Molasses ³	Total
	1,00	0 tons	Dollars	per ton		Million dollars	
State							
1995	492	163	387	59.00	190.5	9.7	200.2
1996	437	147	368	54.50	160.8	8.0	168.8
1997	357	131	357	38.60	127.5	5.0	132.5
1998	354	118	368	23.50	130.3	2.8	133.1
1999	368	137	352	13.30	129.5	1.8	131.3
Counties:							
Hawaii							
1995	47	16	387	55.50	18.2	.9	19.1
1996	7	3	350	38.60	2.5	.1	2.6
1997	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
Honolulu							
1995	81	29	387	61.10	31.3	1.8	33.1
1996	42	17	363	48.20	15.2	.8	16.0
1997	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0
Kauai							
1995	135	44	388	59.00	52.4	2.6	55.0
1996	156	52	370	56.20	57.7	2.9	60.6
1997	133	41	354	39.80	47.1	1.6	48.7
1998	117	33	366	24.50	42.8	.8	43.6
1999	113	38	351	13.70	39.7	.5	40.2
Maui							
1995	229	74	387	58.90	88.6	4.4	93.0
1996	232	75	368	55.40	85.4	4.2	89.6
1997	224	90	359	38.00	80.4	3.4	83.8
1998	237	85	369	23.10	87.5	2.0	89.5
1999	255	99	352	13.20	89.8	1.3	91.1

¹ Primary data source, Hawaii Agricultural Research Center.
² Derived from production and value. State and county prices may not compute exactly due to rounding.

³ Commercial.

MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 1995-99 crop years

		Ad	reage	Yield	Produ	ction ⁴	Averaç	ge moisture	Farm p	rices 4	Farm
Crop year 1	Farms	In crop	Harvested ²	per acre ³	Gross ⁵	Net ⁶	Entire crop	Purchases only	Gross ⁷	Net	value ⁸
	Number	,	A <i>cres</i>		- 1,000 poun	ds	F	Percent	Cents pour	•	1,000 dollars
1995-96	700	20,300	19,300	2.6	57,000	51,000	18.3	19.4	66.2	74.0	37,740
1996-97	750	20,200	19,200	2.9	63,000	56,500	18.6	17.9	70.0	78.0	44,070
1997-98	800	20,200	19,200	3.0	65,000	58,000	19.5	19.6	66.9	75.0	43,500
1998-99	800	20,200	19,200	3.0	66,000	57,500	20.5	20.8	57.0	65.0	37,375
1999-00	800	19,900	18,900	3.0	64,000	56,500	19.3	19.3	59.1	67.0	37,855

¹ Season begins July 1st and ends June 30th of the following year. ² Called bearing acreage prior to 1993-94 crop year. ³ Net production per bearing acre. ⁴Wet in-shell basis, delivered to processors. ⁵ Gross pounds delivered for processing. ⁶ Gross pounds delivered for processing less total spoilage. ⁷ Farm value divided by gross production. ⁸ Net production multiplied by net farm price.

U. S. imports of macadamia nuts, by country of origin, 1999

		<u> </u>		
Country		Type		
of origin	Shelled or blanched	Pickled or otherwise prepared or preserved	Not shelled	Total
		Metric tons		
Australia	2,323	0	18	2,341
Brazil	152	0	0	152
Canada	0	4	0	4
Colombia	5	0	0	5
Costa Rica	128	67	49	244
El Salvador	0	3	0	3
Guatemala	478	2	0	480
Indonesia	0	2	0	2
Japan	0	1	0	1
Kenya	217	0	0	217
Lebanon	0	9	0	9
Mainland China	15	0	5	20
Malawi	313	21	13	347
Mozambique	12	0	0	12
Rep. of S. Africa	1,013	0	24	1,037
Spain	8	0	0	8
Zimbabwe	57	0	0	57
Total 1	4,721	109	109	4,939

* = Less than 1 metric ton. Source: U. S. Department of Commerce.

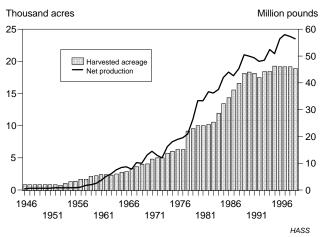


U. S. imports of macadamia nuts, by type, 1990-99

		Туре	
Year	Shelled or blanched	Pickled or otherwise prepared or preserved	Not shelled
		Metric tons	
1990	2,159	126	49
1991	1,427	96	39
1992	1,775	49	28
1993	2,047	84	131
1994	1,726	95	56
1995	2,597	76	34
1996	2,481	70	14
1997	2,898	63	266
1998	3,459	40	60
1999	4,721	109	109

Source: U. S. Department of Commerce.

MACADAMIA NUTS: Harvested Acreage and Net Production, State of Hawaii, 1946-99 Seasons



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COFFEE: Number of farms, acreage, yield, marketings, price, and value, by counties, 1995-99

Crop	Forms	Ac	reage	Yield ²	Marketings ³		Farm prices		Value of	Green
year ¹	Farms	In crop	Harvested	rieid	Marketings	Cherry	Parchment	All ⁴	sales	production
	Number	,	A <i>cres</i>	1,0	000 pounds		Cents per pound	'	1,000 dollars	1,000 pounds
State										
1995-96	580	6,800	5,500	1.0	5,400			300.0	16,200	4,320
1996-97	560	6,600	5,400	1.2	6,400			325.0	20,800	5,000
1997-98	585	7,000	5,800	1.6	9,400			300.0	28,200	7,720
1998-99	610	7,400	6,100	1.6	9,500			260.0	24,700	7,600
1999-00	650	7,700	6,400	1.6	10,000			210.0	21,000	8,100
Counties:										
Hawaii										
1995-96	570	1,880	1,470	1.7	2,500	100.0	515.0	460.0	11,500	2,000
1996-97	550	2,160	1,720	1.3	2,300	105.0	550.0	470.0	10,810	1,850
1997-98	575	2,490	1,900	1.5	2,850	135.0	700.0	570.0	16,245	2,300
1998-99	600	2,800	2,170	1.6	3,500	130.0	500.0	460.0	16,100	2,800
1999-00	635	3,200	2,400	1.2	3,000	70.0	360.0	310.0	9,300	2,400
Honolulu/	Kauai/M	aui ⁵								
1995-96	10	4,920	4,030	.7	2,900			⁶ 162.0	4,700	2,320
1996-97	10	4,440	3,680	1.1	4,100			243.0	9,990	3,150
1997-98	10	4,510	3,900	1.7	6,550			183.0	11,955	5,420
1998-99	10	4,600	3,930	1.5	6,000			143.0	8,600	4,800
1999-00	10	4,500	4,000	1.8	7,000			167.0	11,700	5,700

¹ Coffee harvesting occurs throughout the year in Hawaii. The main harvest normally begins in late summer and extends to the early part of the following year.

² Average yields based on parchment equivalent marketings and harvested acreage.

³ Expressed in parchment equivalent pounds. Coffee marketed in cherry form was converted to an equivalent parchment weight and added to parchment marketings.

⁴ Represents an average farm price for parchment equivalent sales. Obtained by dividing farm revenues from the sale of cherry and parchment coffee by total marketings (parchment equivalent basis).

⁵ Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

⁶ Weighted combination of farm prices and the average International Coffee Organization price during October, November, and December on the New York Market (based on 1979 International Coffee Agreement).

Grower sales of Hawaii's flower and nursery products totaled a record \$75.4 million in 1999. The 1999 wholesale value was 3 percent higher than the \$73.2 million value for 1998. Orchids, lei flowers, foliage, and potted flowering plant categories registered increases in 1999.

Hawaii county, with \$41.6 million in sales, ranked number one in 1999. Honolulu farmers registered sales of \$22.7 million, 5 percent lower than the previous year. Maui sales totaled \$9.6 million, 7 percent higher than last year. Kauai sales, pegged at \$1.5 million, were 11 percent more than 1998.

FLORICULTURE AND NURSERY PRODUCTS: Value of grower sales, by counties, 1995-99

Vear Cut Flowers Orchids Lei Foliage Potted flowering Plants Potted flowering Very Ve								,	
State	Year		Orchids ²		Foliage ³	•	nursery		Total
1995						1,000 dollars			_
1995	State								
1996		15 222	12 900	2 025	16 576	2 205	14 622	1 522	69 175
1997					,	•			
1998		,					,		,
1999		,					·	•	
Counties: Hawaii 1995 12,082 6,197 977 10,187 564 2,082 519 32,608 1996 11,672 7,230 1,136 11,125 595 1,978 539 34,275 1997 10,939 8,063 1,226 11,124 882 1,726 541 34,501 1998 11,410 9,114 1,022 611,612 1,676 3,715 604 39,153 1999 10,804 11,398 1,696 13,139 2,002 2,244 295 41,578 Honolulu 1995 995 5,964 1,610 5,458 1,827 9,530 586 25,970 1996 941 7,095 1,506 5,554 2,282 7,282 455 25,115 1997 848 6,136 1,332 4,957 1,917 6,562 379 22,131 1998 774 5,839 1,258 63,331 1,387 10,745 409 23,743 1999 599 6,921 1,199 5,323 1,085 7,317 210 22,654 Kauai 1995 68 259 17 7 7 7 1,313 144 1,801 1996 117 344 73 7 7 7 1,308 123 1,965 1997 76 7 7 7 1,308 123 1,864 1998 138 7 7 7 7 1,555 173 1,804 1998 138 7 7 7 7 1,555 173 1,804 1999 122 413 7 7 7 7 1,555 173 1,804 1999 192 413 7 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 7 5,802 311 8,219 1996 2,371 744 1,228 7 7 7 5,802 311 8,219 1997 2,106 7 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 5 5,802 311 8,219		,	,			-	·	·	·
Hawaii		•	13,317	4,037	19,032	4,703	12,133	755	75,505
1995 12,082 6,197 977 10,187 564 2,082 519 32,608 1996 11,672 7,230 1,136 11,125 595 1,978 539 34,275 1997 10,939 8,063 1,226 11,124 882 1,726 541 34,501 1998 11,410 9,114 1,022 611,612 1,676 3,715 604 39,153 1999 10,804 11,398 1,696 13,139 2,002 2,244 295 41,578 Honolulu 1995 995 5,964 1,610 5,458 1,827 9,530 586 25,970 1996 941 7,095 1,506 5,554 2,282 7,282 455 25,115 1997 848 6,136 1,332 4,957 1,917 6,562 379 22,131 1998 774 5,839 1,258 63,331 1,387 10,745 409		> .							
1996 11,672 7,230 1,136 11,125 595 1,978 539 34,275 1997 10,939 8,063 1,226 11,124 882 1,726 541 34,501 1998 11,410 9,114 1,022 611,612 1,676 3,715 604 39,153 1999 10,804 11,398 1,696 13,139 2,002 2,244 295 41,578 Honolulu 1995 995 5,964 1,610 5,458 1,827 9,530 586 25,970 1996 941 7,095 1,506 5,554 2,282 7,282 455 25,115 1997 848 6,136 1,332 4,957 1,917 6,562 379 22,131 1998 774 5,839 1,258 63,331 1,387 10,745 409 23,743 1999 599 6,921 1,199 5,323 1,085 7,317 210 22,654 Kauai 1995 68 259 17 7		40.000	0.407	077	40.407	504	0.000	5 40	00.000
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1998 11,410 9,114 1,022 611,612 1,676 3,715 604 39,153 1999 10,804 11,398 1,696 13,139 2,002 2,244 295 41,578 Honolulu 1995 995 5,964 1,610 5,458 1,827 9,530 586 25,970 1996 941 7,095 1,506 5,554 2,282 7,282 455 25,115 1997 848 6,136 1,332 4,957 1,917 6,562 379 22,131 1998 774 5,839 1,258 63,331 1,387 10,745 409 23,743 1999 599 6,921 1,199 5,323 1,085 7,317 210 22,654 Kauai 1995 68 259 17 7 7 1,313 144 1,801 1996 117 344 73 7 7 1,308 123 1,965 1997 76 7 7 7 7 1,555									,
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Honolulu 1995 995 5,964 1,610 5,458 1,827 9,530 586 25,970 1996 941 7,095 1,506 5,554 2,282 7,282 455 25,115 1997 848 6,136 1,332 4,957 1,917 6,562 379 22,131 1998 774 5,839 1,258 63,331 1,387 10,745 409 23,743 1999 599 6,921 1,199 5,323 1,085 7,317 210 22,654 Kauai 1995 68 259 17 7 7 1,313 144 1,801 1996 117 344 73 7 7 1,308 123 1,965 1997 76 7 7 7 1,555 173 1,804 1998 138 7 7 7 7 1,090 132 1,360		,	·			•	·		·
1995 995 5,964 1,610 5,458 1,827 9,530 586 25,970 1996 941 7,095 1,506 5,554 2,282 7,282 455 25,115 1997 848 6,136 1,332 4,957 1,917 6,562 379 22,131 1998 774 5,839 1,258 63,331 1,387 10,745 409 23,743 1999 599 6,921 1,199 5,323 1,085 7,317 210 22,654 Kauai 1995 68 259 17 7 7 1,313 144 1,801 1996 117 344 73 7 7 1,308 123 1,965 1997 76 7 7 7 7 1,555 173 1,804 1998 138 7 7 7 7 869 110 1,514 Maui		•	11,398	1,696	13,139	2,002	2,244	295	41,578
1996 941 7,095 1,506 5,554 2,282 7,282 455 25,115 1997 848 6,136 1,332 4,957 1,917 6,562 379 22,131 1998 774 5,839 1,258 63,331 1,387 10,745 409 23,743 1999 599 6,921 1,199 5,323 1,085 7,317 210 22,654 Kauai 1995 68 259 17 7 7 1,313 144 1,801 1996 117 344 73 7 7 1,308 123 1,965 1997 76 7 7 7 7 1,555 173 1,804 1998 138 7 7 7 7 1,090 132 1,360 1999 122 413 7 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 7 2,923 249	Honolu								
1997 848 6,136 1,332 4,957 1,917 6,562 379 22,131 1998 774 5,839 1,258 63,331 1,387 10,745 409 23,743 1999 599 6,921 1,199 5,323 1,085 7,317 210 22,654 Kauai 1995 68 259 17 7 7 1,313 144 1,801 1996 117 344 73 7 7 1,308 123 1,965 1997 76 7 7 7 1,555 173 1,804 1998 138 7 7 7 1,090 132 1,360 1999 122 413 7 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,	1995	995	5,964	1,610	5,458	1,827	9,530	586	25,970
1998 774 5,839 1,258 63,331 1,387 10,745 409 23,743 1999 599 6,921 1,199 5,323 1,085 7,317 210 22,654 Kauai 1995 68 259 17 7 7 1,313 144 1,801 1996 117 344 73 7 7 1,308 123 1,965 1997 76 7 7 7 7 1,555 173 1,804 1998 138 7 7 7 7 1,090 132 1,360 1999 122 413 7 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 7 5,802 311 8,219				,		•	,		
1999 599 6,921 1,199 5,323 1,085 7,317 210 22,654 Kauai	1997	848	6,136	1,332		1,917		379	22,131
Kauai 1995 68 259 17 7 7 1,313 144 1,801 1996 117 344 73 7 7 1,308 123 1,965 1997 76 7 7 7 7 1,555 173 1,804 1998 138 7 7 7 7 1,090 132 1,360 1999 122 413 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 7 5,763 334 8,951	1998	774		1,258	⁶ 3,331	1,387	10,745	409	23,743
1995 68 259 17 7 7 1,313 144 1,801 1996 117 344 73 7 7 1,308 123 1,965 1997 76 7 7 7 7 1,555 173 1,804 1998 138 7 7 7 7 1,090 132 1,360 1999 122 413 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 7 5,763 334 8,951	1999	599	6,921	1,199	5,323	1,085	7,317	210	22,654
1995 68 259 17 1996 117 344 73 7 7 1,308 123 1,965 1997 76 7 7 7 7 7 1,555 173 1,804 1998 138 7 7 7 7 7 1,090 132 1,360 1999 122 413 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 7 5,763 334 8,951	Kauai								
1996 117 344 73 7 7 1,308 123 1,965 1997 76 7 7 7 7 1,555 173 1,804 1998 138 7 7 7 1,090 132 1,360 1999 122 413 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 7 5,763 334 8,951	1995	68	259	17			1.313	144	1.801
1997 76 7 7 7 7 7 1,555 173 1,804 1998 138 7 7 7 7 1,090 132 1,360 1999 122 413 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 7 5,763 334 8,951			344	73					
1998 138 7 7 7 7 1,090 132 1,360 1999 122 413 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 7 5,763 334 8,951			7	7					
1999 122 413 7 7 7 869 110 1,514 Maui 1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 7 5,763 334 8,951			7						
Maui 1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 5,763 334 8,951			413	7	7	7			
1995 2,188 470 1,331 7 7 3,533 274 7,796 1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 5,763 334 8,951									•
1996 2,371 744 1,228 7 7 2,923 249 7,515 1997 2,106 7 7 7 5,802 311 8,219 1998 2,854 7 7 7 5,763 334 8,951		2 188	470	1 331	7	7	3 533	274	7 796
1997 2,106 ⁷ ⁷ ⁷ ⁷ 5,802 311 8,219 1998 2,854 ⁷ ⁷ ⁷ 5,763 334 8,951					7	7			
1998 2,854 7 7 7 7 7 5,763 334 8,951			7	1,220	7	7			
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		·	7	7	7	7	·		·
		·	1.185	7	7	7			

¹Cut orchids included in "Orchids" category. ²Excludes orchids used for lei flowers. ³Includes potted, cut, and unfinished. ⁴Includes bedding plants, plant rentals, sod, trees, and any other nursery products not elsewhere classified. Sum of county estimates may not add to State total due to rounding. ⁵Includes grower sales greater than \$999 but less than \$10,000 which were not categorized. ⁶Unfinished foliage, 1998 included in "All other nursery products". ⁷Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

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FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1995-99 1

_				=
Crop	Farms having	Production	Quantity	Value of
3.6p	sales ²	area	sold	sales
	Number	1,000 square feet	1,000	1,000 dollars
CUT FLOWERS				
Anthuriums - dozens				
1995	69	11,310	965	7,042
1996	65	11,100	906	7,056
1997	61	11,420	758	6,892
1998	75	11,285	834	6,301
1999	68	11,500	1,289	6,496
Birds of Paradise - dozens				
1995	32	2,965	119	754
1996	29	2,740	102	554
1997	31	2,740	78	486
1998	24	2,285	66	495
1999	25	5,650	83	561
Carnations, miniature - bunches				
1995	9	385	110	383
1996	10	230	111	390
1997	8	205	91	320
1998	5	115	47	124
1999	4	75	51	131
Chrysanthemums, pompon - bun	ches			
1995	4	295	251	554
1996	4	275	225	479
1997	4	295	177	409
1998	6	265	196	358
1999³				
Ginger, pink - dozens				
1995	46	2,225	85	564
1996	54	2,180	76	528
1997	40	1,915	52	402
1998	52	3,075	92	530
1999	47	3,465	81	403
Ginger, red - dozens				
1995	51	2,655	117	599
1996	52	2,660	88	444
1997	46	2,350	85	473
1998	63	4,860	142	794
1999	60	3,380	226	807
See footnotes at end of table.				Contin

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1995-99 1 -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	Number	1,000 square feet	1,000	1,000 dollars
Gingers, other - dozens				
1995	17	355	6	48
1996	26	610	13	100
1997	16	575	14	92
1998	30	830	18	144
1999	26	1,085	28	217
Heliconias - dozens				
1995	50	4,315	49	495
1996	51	3,920	44	477
1997	47	3,445	40	432
1998	56	5,775	56	664
1999	58	4,860	78	582
Proteas - stems				
1995	28	5,835	1,877	1,071
1996	31	7,100	1,772	1,233
1997	30	5,625	1,353	1,160
1998	28	8,015	2,996	1,738
1999	31	8,345	2,466	1,438
Other cut flowers - dozens				
1995	35	NA	NA	3,823
1996	36	NA	NA	3,840
1997	35	NA	NA	3,303
1998	38	NA	NA	4,028
1999	22	NA	NA	3,447

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1995-99 1 -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	Number	1,000 square feet	1,000	1,000 dollars
ORCHIDS				
Cymbidiums, cut - flowers				
1995	9	440	251	159
1996	8	280	300	189
1997	8	275	348	137
1998	12	315	418	216
1999	11	335	536	314
Dendrobiums, sprays - dozens				
1995	58	3,435	410	3,078
1996	48	3,105	383	2,797
1997	56	3,505	368	2,549
1998	59	2,970	419	2,864
1999	49	2,610	383	2,676
Oncidiums, sprays - dozens				
1995	24	240	26	271
1996	28	275	40	386
1997	28	305	34	356
1998	32	485	58	580
1999	32	355	47	462
Other orchids, sprays 4 - dozens				
1995	11	NA	NA	30
1996	7	NA	NA	37
1997	5	NA	NA	25
1998	4	NA	NA	52
1999	6	NA	NA	28
Dendrobiums, potted 5 - pots				
1995	56	1,035	804	4,358
1996	63	1,200	1,131	5,185
1997	⁶ 63	1,295	1,409	6,392
1998	63	NA	1,107	6,069
1999	71	NA	1,149	6,194
Phalaenopsis, potted 7 - pots				
1995				
1996				
1997				
1998	20	NA	221	1,178
1999	22	NA	207	1,153
Other orchids, potted - pots				
1995	52	1,115	1,085	4,994
1996	57	1,185	1,553	6,819
1997	56	1,235	1,295	6,020
1998	57	NA	951	4,831
1999	65	NA	2,029	9,090
See footnotes at end of table.			•	Continue

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1995-99 1 -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
L	Number	1,000 square feet	1,000	1,000 dollars
EI/INDIVIDUAL BLOOMS				
Carnations - blooms				
1995	10	NA	11,200	590
1996	11	NA	10,000	538
1997	7	NA	7,500	410
1998	9	NA	6,800	448
1999	7	NA	5,600	396
Dendrobiums - blooms				
1995	32	NA	22,400	716
1996	33	NA	24,700	740
1997	35	NA	24,800	725
1998	28	NA	28,900	855
1999	27	NA	21,700	663
Pikake - strands				
1995	5	NA	61.3	169
1996	4	NA	21.7	86
1997 ⁸				
1998	5	NA	55.6	128
1999	7	NA	83.3	222
Plumerias - blooms				
1995	7	NA	19,500	489
1996	12	NA	29,900	717
1997	11	NA	31,800	833
1998	9	NA	23,800	601
1999	10	NA	45,000	931
Tuberoses - blooms			•	
1995	8	NA	8	8
1996	7	NA	8	8
1997	4	NA	8	8
1998	6	NA	19,500	912
1999	6	NA	20,400	959
Vanda, Miss Joaquim - blooms				
1995	13	NA	22,500	677
1996	12	NA	22,200	627
1997	9	NA	22,300	657
1998	9	NA	10,900	292
1999	7	NA	11,200	392
Other lei/individual - blooms			•	
1995	NA	NA	NA	1,294
1996	NA	NA	NA	1,235
1997	NA	NA	NA	1,188
1998	NA	NA	NA	249
1999	NA	NA	NA	474
See footnotes at end of table.	· -			Contin

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1995-99 1 -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	Number	1,000 square feet	1,000	1,000 dollars
FOLIAGE				
Potted, primarily for indoor or	patio use 9			
1995	76	7,540	NA	11,812
1996	75	7,495	NA	13,000
1997	60	6,395	NA	12,552
1998	74	5,035	NA	14,617
1999	65	5,265	NA	14,896
Potted, primarily for landscape	e use			
1995	65	NA	NA	3,902
1996	62	NA	NA	3,527
1997	62	NA	NA	3,515
1998 ¹⁰				
1999 ¹⁰				
Ti leaves, cut - leaves				
1995	30	1,090	2,400	142
1996	36	1,480	3,100	218
1997	27	1,225	2,600	153
1998	41	2,585	6,000	412
1999	43	2,575	5,800	459
Unfinished stock (for further g	rowing on)			
1995	21	25,600	NA	622
1996	19	20,000	NA	664
1997	16	17,205	NA	511
1998 ¹⁰		,		
1999 ¹⁰				
Other greens, cut				
1995	21	NA	NA	98
1996	24	NA	NA	171
1997	23	NA	NA	258
1998	35	NA	NA	374
1999	18	NA	NA	116

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1995-99 1 -- Continued

	Otato of Hawaii	, 1000 00 00111111	aoa	
Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	Number	1,000 square feet	1,000	1,000 dollars
POTTED FLOWERING PLANTS				
Anthuriums - pots				
1995	16	68	61	97
1996	17	75	70	155
1997	21	190	140	390
1998	15	NA	113	321
1999	24	NA	144	495
Bromeliads 11 - pots				
1995				
1996				
1997				
1998	8	NA	88	423
1999	17	NA	112	621
Chrysanthemums 11 - pots				
1995				
1996				
1997				
1998	5	NA	127	573
1999	4	NA	159	675
Poinsettias - pots				
1995	27	545	221	904
1996	27	600	243	952
1997	28	590	238	900
1998	30	NA	263	1,012
1999	29	NA	331	1,268
Other potted flowering plants				
1995	39	NA	NA	2,294
1996	39	NA	NA	2,747
1997	40	NA	NA	2,461
1998	27	NA	NA	1,563
1999	26	NA	NA	1,704

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 1995-99 1 -- Continued

Crop	Farms having sales²	Production area	Quantity sold	Value of sales
	Number	1,000 square feet	1,000	1,000 dollars
ORNAMENTALS & TREES				
1995	46	NA	NA	4,112
1996	43	NA	NA	1,741
1997	42	NA	NA	1,561
1998 ¹⁰				
1999 ¹⁰				
PLANT RENTALS				
1995	41	NA	NA	3,293
1996	44	NA	NA	3,690
1997	37	NA	NA	2,925
1998	45	NA	NA	4,715
1999	32	NA	NA	3,227
OTHER NURSERY PRODUCTS	S ¹²			,
1995	96	NA	NA	7,218
1996	96	NA	NA	6,182
1997	88	NA	NA	6,764
1998 ¹³	NA	NA	NA	13,267
1999 ¹³	NA	NA	NA	13,113
JNSPECIFIED SALES 14				,
1995				1,523
1996				1,366
1997				1,404
1998				1,479
1999				753
TOTAL				
1995	705			68,175
1996	690			68,870
1997	670			66,655
1998	745			73,207
1999	855			75,363

NA = Not available. ¹Beginning 1992, includes only producers having total sales of \$10,000 or more. ²Number for each individual flower item is count of those having sales of that item during each year; "Total" is unduplicated count. ³Included with "Other cut flowers" to avoid disclosure of individual operations. ⁴Includes cattleyas, vanda hybrids, phalaenopsis, and paphiopedilums. ⁵Includes in bud/bloom and community pots. ⁶Revised. ¬Prior to 1998, included with "Other orchids, potted". BIncluded with "Other lei/individual" to avoid disclosure of individual operations. 9Includes hanging baskets. ¹Included with "Other nursery products". ¹¹Prior to 1998, included with "Other potted flowering plants". ¹²Includes bedding plants and other flowers or nursery products not elsewhere classified. ¹³Includes "Potted, primarily for landscape use", "Unfinished stock (for further growing on)", and "Ornamentals & trees". ¹⁴Beginning 1992, includes sales of growers greater than \$999 but less than \$10,000 which were not categorized.

FLORICULTURE AND NURSERY PRODUCTS: Number of farms and growing area, by counties, 1995-99

	 	1	A 10 1 1 1 1	1 11 1 1 1	0	-
Year	Farms	Greenhouse 1	Artificial shade	Natural shade	Open field	Total area
	Number	1,000 s	quare feet		Acres	
State						
1995	705	3,770	24,215	15	2,040	2,698
1996	690	2,820	23,405	10	1,600	2,212
1997	670	2,805	23,885	10	1,535	2,158
1998	745	2,810	24,200	9	2,050	2,679
1999	855	2,810	24,510	7	2,325	2,959
Counties:						
Hawaii						
1995	333	2,910	18,880	15	1,115	1,630
1996	316	1,990	17,815	10	775	1,240
1997	312	2,000	18,805	10	875	1,363
1998	355	1,975	19,620	9	1,155	1,660
1999	376	1,950	20,435	7	1,425	1, 946
1999	370	1,950	20,433	•	1,423	1,940
Honolulu						
1995	220	550	4,585	0	380	498
1996	211	540	4,910	0	350	475
1997	202	510	4,380	0	310	422
1998	205	480	3,810	0	415	514
1999	245	445	3,235	0	425	509
Kauai						
1995	46	40	375	0	95	105
1995	52	60	345	0 0	60	69
1990						
	50	60 75	355 305	0	55 45	65 53
1998	40	75	295	0	45 60	53
1999	80	90	235	0	60	68
Maui						
1995	106	270	375	0	450	465
1996	111	230	335	0	415	428
1997	106	235	345	Ö	295	308
1998	145	280	475	0	435	452
1999	154	325	605	Ŏ	415	436

¹ Glass or glass substitute structure.

FLORICULTURE AND NURSERY PRODUCTS: Out-of-State sales, State of Hawaii, 1995-991

Commodity	1995	1996	1997	1998	1999
			1,000 dollars		
Anthuriums, cut	10,395	9,705	10,945	9,795	10,685
Birds of Paradise	905	650	720	945	710
Cymbidiums	80	115	80	130	110
Dendrobiums, sprays	3,120	4,110	3,545	3,820	2,875
Oncidium					270
Foliage, cut:					
Ti leaves	720	635	670	475	400
Other cut greens	885	1,010	885	1,070	845
Foliage, potted	9,910	9,500	10,320	12,220	12,785
Ginger, red	1,000	675	765	810	875
Gingers, other	740	605	450	800	890
Heliconias	740	800	820	955	970
Potted orchids:					
Dendrobiums	3,325	2,965	3,510	4,360	4,120
Phalaenopsis					285
Other orchids	3,420	3,995	5,410	6,485	5,395
Proteas	1,675	1,625	2,025	2,405	2,130
Unfinished potted foliage stock	315	70	70	400	355
All other flowers and nursery					
products	1,755	1,930	1,185	2,510	2,245
Total	38,985	38,390	41,400	47,180	45,945

¹Based on F.O.B. island value. Includes both wholesale and retail sales. Does not include sales of cut flowers, leis, etc., purchased within the State and hand carried out.

DENDROBIUM ORCHIDS: Sales and value, State of Hawaii, 1995-991

	Indivi	dual	Cut o	arovo.		Potted	plants		
Year	blossom	oms	Cut Sp	Cut sprays		In bud/bloom		Community pots	
ı cai	Number sold	Value	Number sold	Value	Number sold	Value	Number sold	Value	value
	Million blooms	1,000 dollars	1,000 dozens	1,000 dollars	1,000 pots	1,000 dollars	1,000 pots	1,000 d	ollars
1995	22.4	716	410	3,078	762	4,137	42	221	8,152
1996	24.7	740	383	2,797	1,025	4,595	106	590	8,722
1997	24.8	725	368	2,549	1,249	5,599	160	793	9,666
1998	28.9	855	419	2,864	1,025	5,663	82	406	9,788
1999	21.7	663	383	2,676	964	5,678	185	516	9,533

¹ Includes only producers with total sales of \$10,000 or more.